

LAND APPLICATION SITE

R W BRIDGMAN SITE

DWRWB 1

DINWIDDIE COUNTY

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT	
This biosolids application agreement is made on 12-8-11 referred to here as "landowner" and Recyc Systems, inc	between RW + JACKIE BRIDGMAN referred to here as the "Permittee"
Landowner is the owner of agricultural land shown on the	on landowner's land in amounts and in a manner without of
Landowner acknowledges that the appropriate application of conditioning to the property and consents to the application of behaving been expressly advised that, in order to protect public heat	biosolids will be beneficial in providing fertilizer and soil
Public access to landowner's land upon which biosolids if following any application of biosolids and no biosolids amended same period of time unless adequate provisions are made to pre-	have been applied should be controlled for at least 30 days soil shall be excavated or removed from the site during this event public exposure to soil, dusts or aerosole.
2 Food crops with harvested parts that touch the biosolids/ be harvested for 14 months after the application of biosolids. Fo shall not be harvested for 20 months after the application of bio- time period of four (4) or more months prior to incorporation integrated surface for a time period of less than four (4) months prior crops shall not be harvested for 30 days after the application of	soil maxture and are totally above the land surface shall not an order of the land surface of the land possibles when the biosolids remain on the land surface for a story of the land surface. Other feed space for the properties of the land surface for the land surface for the land surface for the land surface feed space feed space for the land surface feed space.
3 Following biosolids application to pasture or hayland si chopped foliage for 30 days and lactating dairy animals should be should be restricted from grazing for 30 days.	tes meat producing livestock should not be grazed or fed similarly restricted for a minimum of 60 days. Other animals
Supplemental commercial fertilizer or manure applications that the total crop needs for nutrients are not exceeded as identific certified in accordance with §10 1-104 2 of the Code of Virginia of application of biosolids to a specific permitted site,	should be coordinated with the biosolids applications such ed in the nutrient management plan developed by a person to be supplied to the landowner by the permittee at the time
5 Tobacco, because it has been shown to accumulate card years following the application of biosolids borne card kilograms/hectare)	mium should not be grown on landowner's land for three illum equal to or exceeding 0.45 pounds/ecre (0.5
6 Turf grown on land where biosolids are applied shall not be harvested turf is placed on either land with a high potential for permitting authority	pe harvested for one year after application of biosolids when the public exposure or a lawn, unless otherwise specified by the
The landowner agrees to allow county officials access to necessary, to complete site inspections related to the scheduled it	to the area of the property permitted for biosolids, whenever biosolids program
Permittee agrees to notify landowner or landowner design specifically prior to any perficular application to landowner's land written partice to the address specified below	-
Landowner Signature	Mailing Address 12D .
Jack of Bulkman	M=Kenney, VA. 23872 Phone BOY-SB6-0840
	Mailing Address
Farm Operator Signature	
Farm Operator Print Name	
	Phone
Permittee Recyc Systems, Inc	Mailing Address
	P O Box 562
	Remington Virginia 22734
	(540) 547-3300

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

This biosolids application agreement is made on 12-12-11 referred to here as "landowner" and Recyc Systems, Inc	between RWBRICARD.
Landowner is the owner of agricultural land shown on the	map attached as Exhibit A and designated there as
with certain permit requirements following application of biosolids by (VPA) (VPDES) permit number which is	Permittee agrees to apply and landowner agrees to comply on landowner's land in amounts and in a manner authorized
Landowner acknowledges that the appropriate application of conditioning to the property and consents to the application of bid having been expressly advised that, in order to protect public hea	OSOlids on his property. Moreover, landowner acknowledges
Public access to landowner's land upon which biosolids to following any application of biosolids and no biosolids amended same period of time unless adequate provisions are made to pre-	nave been applied should be controlled for at least 30 days soil shall be excavated or removed from the site during this event public exposure to soil, dusts or aerosols,
2 Food crops with harvested parts that touch the biosolids/ be harvested for 14 months after the application of biosolids. Fo shall not be harvested for 20 months after the application of bio- time period of four (4) or more months prior to incorporation integrated for a time period of less than four (4) months prior crops shall not be harvested for 30 days after the application of	osolids when the biosolids remain on the land surface for a to the soil, or 38 months when the biosolids remain on the property to incorporation. Other food crops, feed crops, and fiber
3 Following biosolids application to pasture or hayland si chopped foliage for 30 days and lactating dairy animals should be should be restricted from grazing for 30 days,	tes, meat producing livestock should not be grazed or fed similarly restricted for a minimum of 60 days. Other animals
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The landowner agrees to allow county officials access necessary, to complete site inspections related to the scheduled	to the area of the property permitted for biosolids, whenever biosolids program
Permittee agrees to notify landowner or landowner design specifically prior to any particular application to landowner's land written notice to the address specified below	
	Mailing Address
Landowner Signature	
Landau and Durch Maria	
Landowner Print Name	Phone
~ 1	
Farm Operator Signature	Mailing Address 1840 OD CRYGRS RT
CLAUDE V. TONOSENO	M 11 110 2765 -
Farm Operator Print Name	McKENNEY VA. 23872 Phone 804-478-5728
Permittee	
Recyc Systems, Inc	Mailing Address P O Box 562
	Remington Virginia 22734
	(540) 547-3300

FARM DATA SHEET

SITE NAME	R W Bridgman Site	COWNITY	Dinwiddie
OWNER	RW ,Jr && Jaackie T Bridgman	OPERATIOR	Clasurdle V Trownseemd
OWNER'S	17805 Old Cryrors Rd	OPERATOR'S	18401 Old Cryors Rd
ADDRESS	McKenney, VA 23872	ADDRESS	McKenney, VA 23872
OWNER'S TELEPHIONE	804-586-0840	OPERATOR'S TELEPHONE	804-478-5728
GENERALIFARIWITIYHE	Hay	CELLIPHONE	804-691-0747
# CATTILE	None	EMAIL:	
LAXEDOON or SLURRY	None	LAMINUDE	37°01′42″
TOPO QUAD	Darvilles	LOINGIITUDE	77 ⁸ 48 '09"
COMMENTS			
		<u> </u>	
			

Recyc Systems, Inc

R W Bridgman Site

Owner	Operator		Recyc	Acres	Date of Last
			Field No		Application
RW, Jr & Jackie	Claude V	T404	DWRWB 1	12 1	-
Bridgman	Townsend	Fields 1,13,14,15			
	Bridgman	Bridgman Townsend	Bridgman Townsend Fields 1,13,14,15	Bridgman Townsend Fields 1,13,14,15	Bridgman Townsend Fields 1,13,14,15

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	Envir	onmentally Se	nsitive Soil	s]	Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood	Hydro Map	M ap #	Tract#
DWRWB 1	12 1	_	-	_	-	CU11	TM65,P29	T404
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							14.4 PRO-11-1	
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			1				 	
TOTAL ACRES IN			ļ					
SITE	12 1							

Report Number 11-342-0804 Account Number 70594 PL SWWaleastern com

A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond Virginia 23237 (804) 743 9401 Fax (804) 271-6446

Send To RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower

Submitted By J B CRENSHAW
Farm ID

BRIDGMAN/DWCVT DINWIDDIE

SOIL ANALYSIS REPORT

Analytical Method(s)

Mehlich 3

Date Received 12/08/2011

Date Of Analysis 12/09/2011

Date Of Report 12/12/2011

Samala ID	Organic Matter Phosphorus			Pota	ssium	Mag	nesium	Cal	cium	Sod	lium	F	H	Acidity	CEC					
Sample ID Field ID	Lab Number	%	Rate	ENR Ibs/A	Meh ppm	iich 3 Rate	Res ppm	serve Rate	ppm	K Rate	ļ	Mg Rate	ppm	Ca Rate	N mag	la Rate	Soil pH	Buffer Index	H meg/100g	mea/100a
DURUB I	08506	22	L	89	41	М			47	L	72		433	M			61	6 88	0.5	33

S 1D		Perce	nt Base	Saturatio	оп	Nitr	litrate		lfur	Zı	nc	Mang	Vlanganese In		Iron Copper		Boron		Soluble Salts		Chloride		Alumınum	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ppm	3	ppm	S Rate	Z ppm		ppm	In Rate		Fe Rate	C ppm		ppm	B Rate	SS ms/cm) Rate	Al ppm
Or UNE 1	37	18 2	65 6		13 9							, .							-					

Values on this report represent the plant available nutrients in the soil Rating after each value VL (Very Low) L (Low) M (Medium) H (High) VH (Very High) ENR - Estimated Nitrogen Release C E C - Cation Exchange Capacity

Explanation of symbols % (percent) ppm (parts per million) lbs/A (pounds per acre) ms/cm (milli-rinhos per centimeter) meq/100g (milli equivalent per 100 grams) Conversions ppm x 2 = lbs/A Soluble Salts ms/cm x 640 = ppm

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by A&L Eastern Laboratories Inc.

by Paurice Mc George

Pauric McGroary

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Report Number 11-342-0804 Account Number 70594



A&L Eastern Laboratories, Inc.

7621 Whitepine Road Richmond Virginia 23237 (804) 743 9401 Fax (804) 271-6446

Send To RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701 Grower

Submitted By J B CRENSHAW
Farm ID

BRIDGMAN/DWCVT DINWIDDIE

Date Received 12/08/2011

Date Of Report 12/12/2011

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn Ib/A	lron Fe lb/A	Copper Cu Ib/A	Boron B Ib/A
on Rus I	Adjust pH to 6 8	0	1 3				8						

Comments

Sample(s) 9

If dolomitic lime is not used, apply required magnesium with magnesium oxide Epsom Salts, K-Mag or Sul-PO-Mag

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied concerning crop performance is made."

Power Mc George

Pauric McGroary

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

Claude Townsend 18401 Old Cryors Road McKenney, VA 23872 804-478-5728

Integrator None

Farm Coordinates

Easting 0, Northing 0, zone 17

Watershed Summary

watershed CU11 county Dinwiddle

Nutrient Management Planner

Recyc Systems Inc Recyc Systems, Inc P O Box 562 Remington, Virginia 22734 540 547 3300

Certification Code None

Acreage Use Summary

Total Acreage in this plan 112 1

Cropland 0 0
Hayland 12 12 1
Pasture 0 0
Specialty 0 0

LivestookkSSommaary

Beef Cattle 0 0
Dairy Cattle 0 0
Poultry 0 0
Swine 0 0
Other 0 0

Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0	0	0	0	0
tons	0	0	0	0	0

Plan written 12/28/2011 Valid until 12/28/2011

Signature		-
	Planner	 date

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Spring, 2012-Summer, 2013) RW Bridgman Planner: Recyc Systems Inc

Tract 404 Location Dinwiddle

(N = N based, 1P = P based, 15P = P based at 15 removal, 0P = No P allowed)

(IN - IN DASEU, IF -	r naseu,	1 35 -	L nazen ar i a ieilioa	ai, vr – Nv r ai	iowed)						**		
Field	Size	Yr	Crop	Needs	Leg	Manure/Biosld	IT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No	(ac)			N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	Р	N-P-K		
/Name	Total/			(lbs/ac)	Resid	(season)	1	(lbs/ac)	(lbs/ac)	rem	(lbs/ac)		
	Used	I			1		<u>l</u>			cred			
1 13 14,15/DWRW	12/12	2012	Fescue grass hay	90-70-200	0/0				90-70-200	N/A		1	İ
B 1(N)			mt		ł							1	L

Commercial Application Methods

br - Broadcast ba - Banded sd - Sidedress

Notes

THE PLANNER IS NOT STATE CERTIFIED

RW Bridgman Narrative

This is Bridgman Farm located in Diniwiddie County The farm consists of hay fields

This is a partial plan written for the purpose of obtaining a biosolids permit Biosolids application has not been shown since it is uncertain when a biosolids permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec lime tons/Ac
404	DWRWB 1	12	2011-Wi	M+ (41 P ppm)	L+ (47 K ppm)	A&L MIII	61		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Gram	Alfalfa	Grass Hay	Environmental Warnings
404	404/1,13, 14.	DWRWB 1	12	Cecil	IVa	I	III	U	

Yield Range

Field Productivity Group	Corn Gram Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std Wileat Bu/Acre	Alfalfa Tons/Acre	Grass/#Hay Tons//Αατο
I	≽170	>80	≽6 4	≽6	≽4 0
II	150-170	70-80	56-64	4-6	3 5-4 0
III	130-150	60-70	48-56	∉4	3 0-3 5
IV	100-130	50-60	40-48	NA	≪3 0
V	≼100	€50	≼4 0	NA	NA

Farm Summary Report

Plan New Plan Spring, 2012 - Summer, 2013

Farm Name RW Bridgman

Location Dinwiddie

Specialist Recyc Systems Inc

N-based Acres 12 1 P-based Acres 0 0

Tract Name 404 FSA Number 404

Location Dinwiddie

Field Name DWRWB 1

Total Acres 12 10 Usable Acres 12 10

FSA Number 1.13.14.15

Tract 404

Location Dinwiddie

Slope Class B Hydrologic Group B

Riparian buffer width 0 ft Distance to stream 0 ft

Conservation Practices

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method Phosphorus Environmental Threshold (PET) method

Soil Test Results

DATE PH P K Lab

Wi-2011 6 1 M+(41 P ppm) L+(47 K ppm) A&L MIII

Soils

PERCENT SYMBOL SOIL SERIES

Appling Cecil 2B 4B 44 56

Field Warnings

Crop Rotation PLANTED YIELD

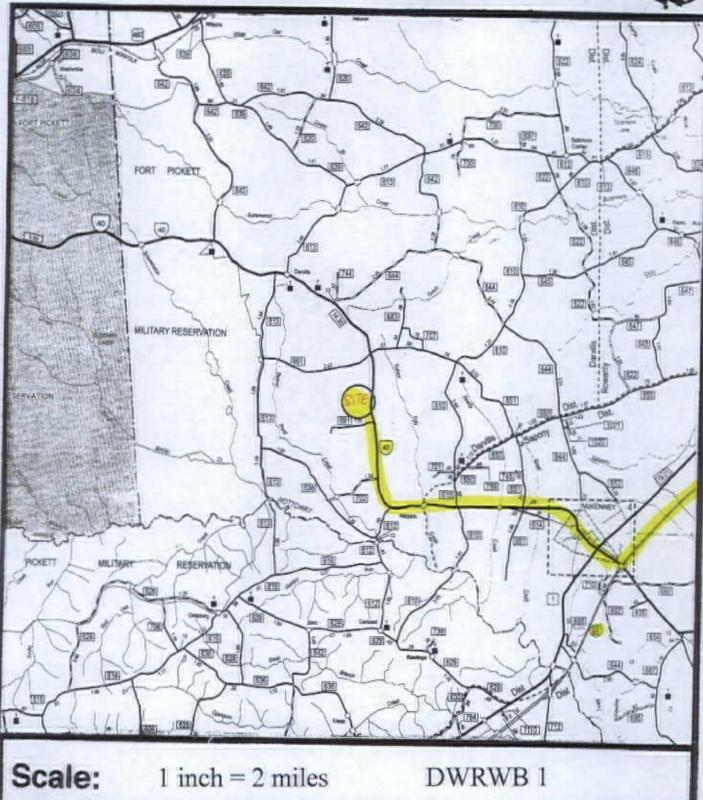
CROP NAME Fescue grass (hay), maint - No Till 2012-Sp 3 1 * tons

MAPS

Recyc Systems

(Biosolids Land Application)





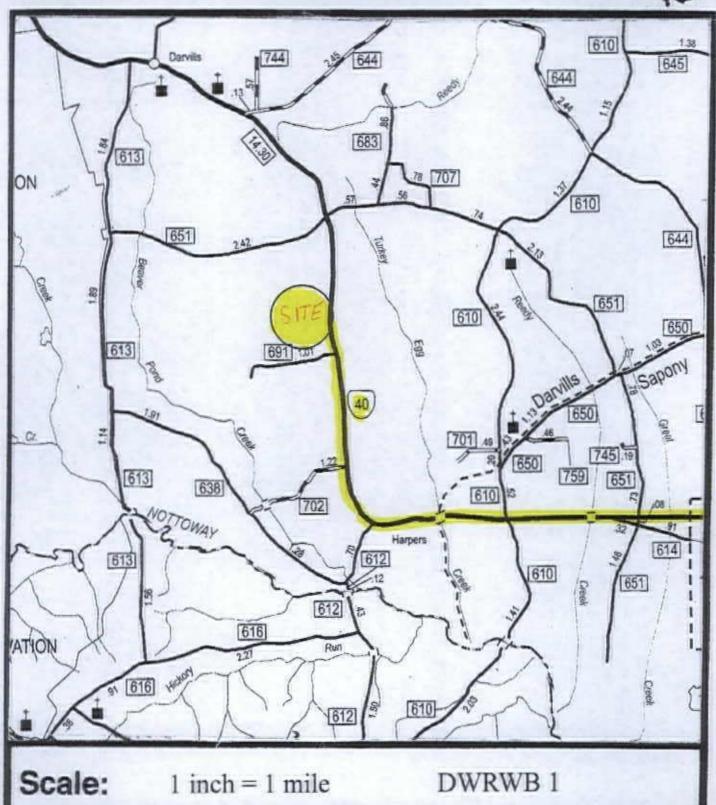
VICINITY MAP

NA

Recyc Systems

(Biosolids Land Application)

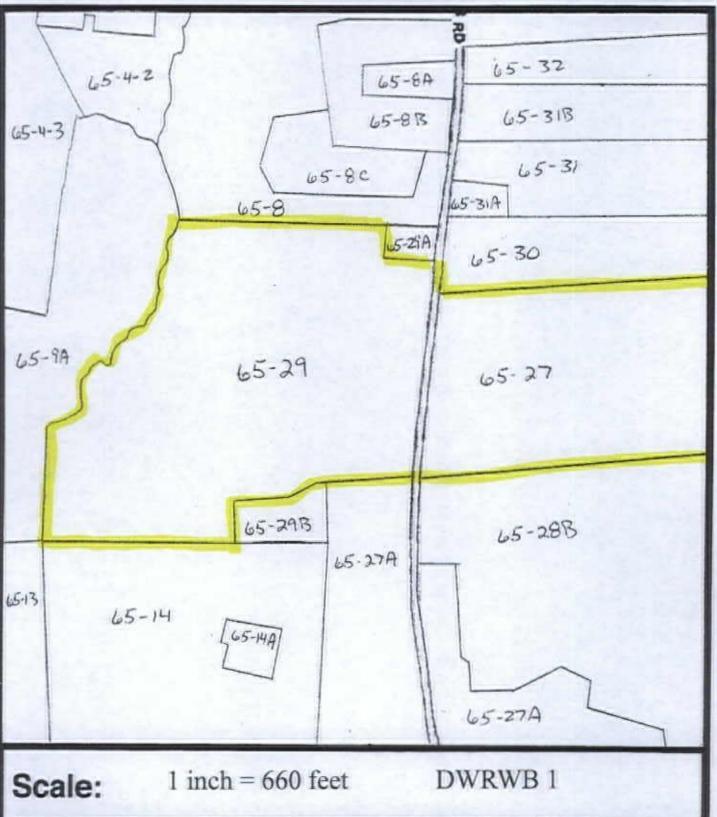




Recyc Systems...

(Biosolids Land Application)





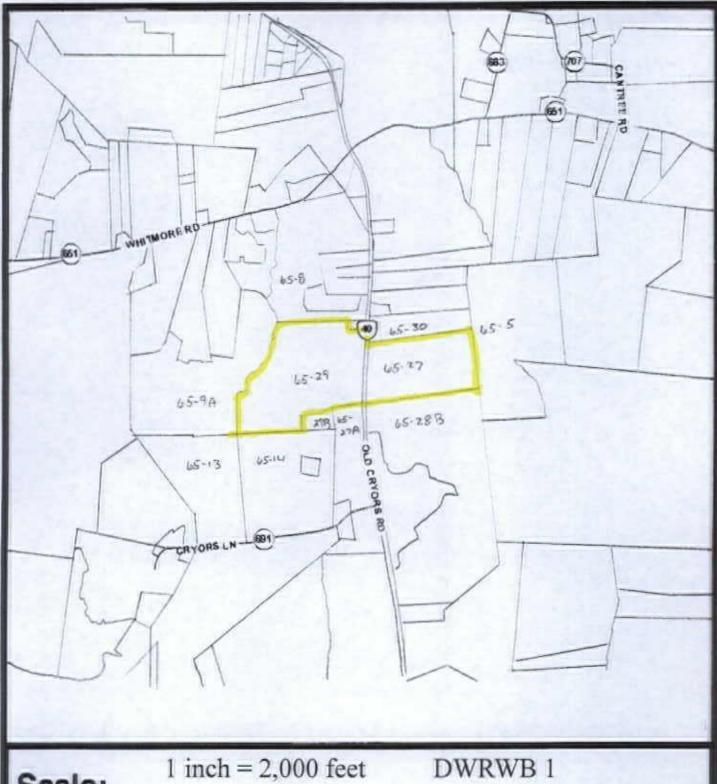
TAX MAP

NA

Recyc Systems Inc.

(Biosolids Land Application)





Scale:

TAX MAP

ADJOINING LANDOWNERS

R W BRIDGMAN SITE

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
65	8	Thomas D. & Susan P. Stone
	9A	John R., III & Barbara F. Ragsdale
1	13	William H. Gammon & Janie G. Wilkins
	14	James T. Rasnake
	27A	Claude V. & Rita M. Townsend
	28B	TIAA Timberlands 1 LLCC
	29A	Margaret Stone Gibbs
120	29B	Aubrey L., Jr. & Loura B. Henley
	30	Thomas D. & Susan P. Stone
66	5	TIAA Timberlands 1 LLCC
0 3	15 17	
900		
	100	
PERM		
		The second secon

Recyc Systems...

(Biosolids Land Application)





Scale:

1 inch = 660 feet

DWRWB 1

SOIL MAP

Recyc Systems...

(Biosolids Land Application)





T404

Scale:

1 inch = 660 feet

DWRWB 1

AERIAL MAP

Legend for Site Plan



House and Well

Well / Spring

Perennial Streams & Surface

Wet Spot

Intermittent Stream / Drainage

Trees and Woods

Private Drive

Rock / Rocky Area

Sinkhole

Severely Eroded Spot

State Road

Field Boundary / Fence

Property Line

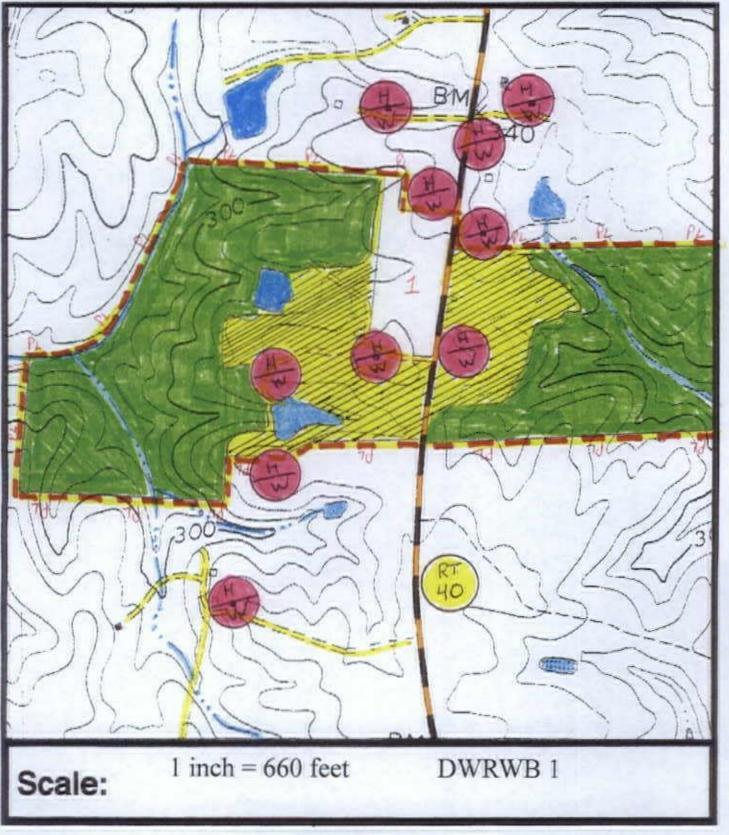
Slope



Recyc Systems.

(Biosolids Land Application)



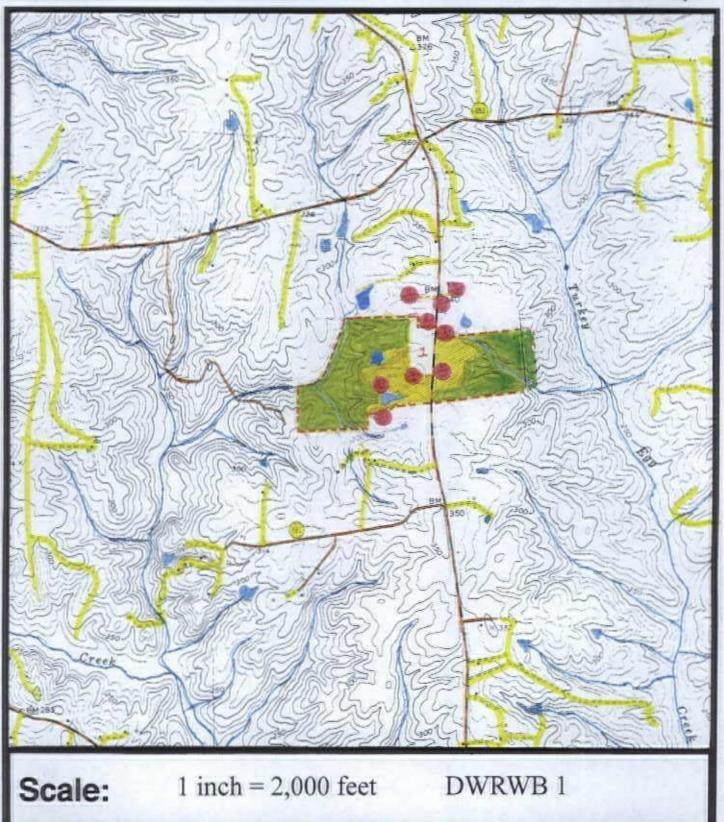


SITE PLAN

Recyc Systems...

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(Biosolids Land Application)



TOPOGRAPHIC MAP

NA